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1 [Parallel multisource view maintenance](#)

Ac

Xin Zhang, Lingli Ding, Elke A. Rundensteiner

January 2004 The VLDB Journal — The International Journal on Very Large Data

Bases, Volume 13 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (382.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)M
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Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 85, Citation Count: 4

In a distributed environment, materialized views are used to integrate data from different information sources and then store them in some centralized location. In order to maintain such materialized views, maintenance queries need to be sent to information ...

Keywords: Concurrent data updates, Data warehousing, Parallel view maintenance, Performance evaluation

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w2 [Answering queries using views: A survey](#)

Alon Y. Halevy

December 2001 The VLDB Journal — The International Journal on Very Large Data

Bases, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (308.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)F
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Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 231, Citation Count: 123

The problem of answering queries using views is to find efficient methods of answering a query using a set of previously defined materialized views over the database, rather than accessing the database relations. The problem has recently received significant ...

Keywords: Data integration, Data warehousing, Materialized views, Query optimization, Survey, Web-site management

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G3 [Materialized view selection and maintenance using multi-query optimization](#)

Hoshi Mistry, Prasan Roy, S. Sudarshan, Krithi Ramamritham

June 2001 ACM SIGMOD Record, Volume 30 Issue 2

Publisher: ACM

Full text available: Pdf (199.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 125, Citation Count: 17

Materialized views have been found to be very effective at speeding up queries, and are increasingly being supported by commercial databases and data warehouse systems.

However, whereas the amount of data entering a warehouse and the number of materialized ...

4 Materialized view selection and maintenance using multi-query optimization



Hoshi Mistry, Prasan Roy, S. Sudarshan, Krithi Ramamritham

May 2001 SIGMOD '01: Proceedings of the 2001 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (199.46 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 125, Citation Count: 17

Materialized views have been found to be very effective at speeding up queries, and are increasingly being supported by commercial databases and data warehouse systems.

However, whereas the amount of data entering a warehouse and the number of materialized ...

5 Devirtualizable virtual machines enabling general, single-node, online maintenance



David E. Lowell, Yasushi Saito, Eileen J. Samberg

October 2004 ASPLOS-XI: Proceedings of the 11th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: Pdf (174.01 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 184, Citation Count: 7

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style ...

Keywords: availability, online maintenance, planned downtime, virtual machines

6 Devirtualizable virtual machines enabling general, single-node, online maintenance



David E. Lowell, Yasushi Saito, Eileen J. Samberg

December 2004 ACM SIGOPS Operating Systems Review, Volume 38 Issue 5

Publisher: ACM

Full text available: Pdf (174.01 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 184, Citation Count: 7

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Keywords: availability, online maintenance, planned downtime, virtual machines

7 Devirtualizable virtual machines enabling general, single-node, online maintenance



David E. Lowell, Yasushi Saito, Eileen J. Samberg

December 2004 ACM SIGARCH Computer Architecture News, Volume 32 Issue 5

Publisher: ACM

Full text available: Pdf (174.01 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 184, Citation Count: 7

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shortcomings that have prevented its broad acceptance. First, cluster-style ...


Keywords: availability, online maintenance, planned downtime, virtual machines

8 [Devirtualizable virtual machines enabling general, single-node, online maintenance](#)

David E. Lowell, Yasushi Saito, Eileen J. Samberg

November 2004 ACM SIGPLAN Notices, Volume 39 Issue 11

Publisher: ACM

Full text available:  Pdf (174.01 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 184, Citation Count: 7

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style ...

Keywords: availability, online maintenance, planned downtime, virtual machines

9 [Process-centered review of object oriented software development methodologies](#)

Raman Ramsin, Richard F. Paige

February 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 1

Publisher: ACM

Full text available:  Pdf (2.86 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 314, Downloads (12 Months): 2322, Citation Count: 0

We provide a detailed review of existing object-oriented software development methodologies, focusing on their development processes. The review aims at laying bare their core philosophies, processes, and internal activities. This is done by using a ...

Keywords: Object-oriented methodologies, agile methods, integrated methodologies, methodology engineering, seminal methodologies

10 [Incremental adaptation of XPath access control views](#)

Padmapriya Ayyagari, Prasenjit Mitra, Dongwon Lee, Peng Liu, Wang-Chien Lee

March 2007 ASIACCS '07: Proceedings of the 2nd ACM symposium on Information, computer and communications security

Publisher: ACM

Full text available:  Pdf (292.19 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 87, Citation Count: 0

Materialized XPath access-control views are commonly used for enforcing access control. When access control rules defining a materialized XML access-control view change, the view must be adapted to reflect these changes. The process of updating a materialized ...

Keywords: XML access control, XPath view, view adaptation

11 [Incremental maintenance of path-expression views](#)

Arsany Sawires, Junichi Tatemura, Oliver Po, Divyakant Agrawal, K. Selçuk Candan

June 2005 SIGMOD '05: Proceedings of the 2005 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available:  Pdf (456.10 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 56, Citation Count: 3

Caching data by maintaining materialized views typically requires updating the cache appropriately to reflect dynamic source updates. Extensive research has addressed the problem of incremental view maintenance for relational data but only few works ...

Keywords: XML views, caching, incremental view maintenance, path expressions

12 [Choices and challenges in e-government field force automation projects: insights from case studies](#)

Hans J (Jochen) Scholl, Shuhua Liu, Raya Fidel, Kristene Unsworth

December 2007 ICEGOV '07: Proceedings of the 1st international conference on Theory and practice of electronic governance

Publisher: ACM

Full text available:  Pdf (125.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 167, Citation Count: 0

Field Force Automation (FFA) has been introduced as the summary term for the redesign of workflows and business processes in the field by means of fully mobile wirelessly connected technologies and applications. In practice, governments around the world ...


Keywords: business process analysis, cognitive systems engineering, cognitive work analysis, digital government, e-government, field force automation (FFA), fully mobile wirelessly connected (FMWC), information systems, integration, interfacing, mobile government, pervasive computing, ubiquitous computing, work content, work context, work-centered design, workflow

13 [Path sharing and predicate evaluation for high-performance XML filtering](#)

Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

Publisher: ACM

Full text available:  Pdf (543.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 192, Citation Count: 33

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

14 [Foundations of incremental aspect model-checking](#)

Shriram Krishnamurthi, Kathi Fisler

April 2007 ACM Transactions on Software Engineering and Methodology (TOSEM),

Volume 16 Issue 2

Publisher: ACM

Full text available:  Pdf (468.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 33, Downloads (12 Months): 273, Citation Count: 0

Programs are increasingly organized around features, which are encapsulated using aspects and other linguistic mechanisms. Despite their growing popularity amongst developers, there is a dearth of techniques for computer-aided verification of programs ...

Keywords: Incremental verification, aspect-oriented programming, feature-oriented software, model checking, modular verification

15 [Triggers over nested views of relational data](#)

Feng Shao, Antal Novak, Jayavel Shanmugasundaram

September 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 3

Publisher: ACM


Full text available: [full citation](#), [appendices and supplements](#), [index terms](#)

 Pdf (1.40 MB)[abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 113, Citation Count: 0

Current systems that publish relational data as nested (XML) views are *passive* in the sense that they can only respond to user-initiated queries over the nested views. In this article, we propose an *active* system whereby users can place ...

Keywords: XML, nested views, relational databases, triggers

16 [Efficient incremental view maintenance in data warehouses](#) Ki Yong Lee, Jin Hyun Son, Myoung Ho Kim

October 2001 CIKM '01: Proceedings of the tenth international conference on Information and knowledge management


Publisher: ACM

Full text available:  Pdf (1.92 MB)[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 93, Citation Count: 3


In the data warehouse environment, the concept of a materialized view is nowadays common and important in an objective of efficiently supporting OLAP query processing. Materialized views are generally derived from select-project-join of several base ...

Keywords: data warehouse, materialized view, view maintenance

17 [Optimized stratified sampling for approximate query processing](#) Surajit Chaudhuri, Gautam Das, Vivek Narasayya

June 2007 ACM Transactions on Database Systems (TODS), Volume 32 Issue 2

Publisher: ACM

Full text available:  Pdf (748.77 KB)[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 249, Citation Count: 0

The ability to approximately answer aggregation queries accurately and efficiently is of great benefit for decision support and data mining tools. In contrast to previous sampling-based studies, we treat the problem as an optimization problem where, ...

Keywords: Random sampling, approximation, query processing

18 [Fast incremental maintenance of approximate histograms](#) Phillip B. Gibbons, Yossi Matias, Viswanath Poosala

September 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 3


Publisher: ACM

Full text available:  Pdf (472.82 KB)[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 105, Citation Count: 9

Many commercial database systems maintain histograms to summarize the contents of large relations and permit efficient estimation of query result sizes for use in query optimizers. Delaying the propagation of database updates to the histogram often introduces ...

Keywords: Approximation, histograms, incremental maintenance, query optimization, sampling

19 [Efficient and scalable statistics gathering for large databases in Oracle 11g](#) Sunil Chakkappen, Thierry Cruanes, Benoit Dageville, Linan Jiang, Uri Shaft, Hong Su, Mohamed Zait

June 2008 SIGMOD '08: Proceedings of the 2008 ACM SIGMOD international conference on

Management of data

Publisher: ACM

Full text available:  Pdf (465.70 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 73, Downloads (12 Months): 171, Citation Count: 0

Large tables are often decomposed into smaller pieces called partitions in order to improve query performance and ease the data management. Query optimizers rely on both the statistics of the entire table and the statistics of the individual partitions ...

Keywords: large databases, partitioned tables, sampling, statistics gathering, synopses


20 Monotonic complements for independent data warehouses

D. Laurent, J. Lechtenbörger, N. Spyrtas, G. Vossen

December 2001 The VLDB Journal — The International Journal on Very Large Data

Bases, Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (344.85 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 52, Citation Count: 5

Views over databases have regained attention in the context of data warehouses, which are seen as *materialized* views. In this setting, efficient view maintenance is an important issue, for which the notion of *self-maintainability* has been ...

Keywords: Data warehouse, Independence, Materialized view, Self-maintainability, View complement

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